

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Chicago 2417 Bond Street University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-126923-1

Client Project/Site: Ponds and Process Tanks

For:

Central Wire (Techalloy) 6509 Olson Road Union, Illinois 60180

Attn: Robert Johnson

Authorized for release by: 4/28/2017 11:51:23 AM

Sandie Fredrick, Project Manager II (920)261-1660

sandie.fredrick@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Central Wire (Techalloy)
Project/Site: Ponds and Process Tanks

TestAmerica Job ID: 500-126923-1

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Definitions/Glossary

Client: Central Wire (Techalloy) Project/Site: Ponds and Process Tanks TestAmerica Job ID: 500-126923-1

Qualifiers

Metals

Qualifier **Qualifier Description**

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier **Qualifier Description**

Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CNF Contains no Free Liquid

DER Duplicate error ratio (normalized absolute difference)

Dil Fac Dilution Factor

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DL, RA, RE, IN

DLC Decision level concentration MDA Minimum detectable activity **EDL** Estimated Detection Limit

MDC Minimum detectable concentration

MDL Method Detection Limit MLMinimum Level (Dioxin)

NC Not Calculated

ND Not detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control RER Relative error ratio

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Central Wire (Techalloy)
Project/Site: Ponds and Process Tanks

TestAmerica Job ID: 500-126923-1

Job ID: 500-126923-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-126923-1

Comments

No additional comments.

Receipt

The samples were received on 4/21/2017 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method(s) 200.8, 6020, 6020A: The internal standard Terbium(Tb) was used to report the elements TI and Pb in batch 500-382298.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Central Wire (Techalloy)

Project/Site: Ponds and Process Tanks

TestAmerica Job ID: 500-126923-1

Client Sample ID: P&T Effluent/pH

Date Collected: 04/20/17 13:45 Date Received: 04/21/17 10:00

Lab Sample ID: 500-126923-1

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/25/17 01:21	1
Tetrachloroethene	< 0.37		1.0	0.37	ug/L			04/25/17 01:21	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/25/17 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126					04/25/17 01:21	1
4-Bromofluorobenzene (Surr)	112		72 - 124					04/25/17 01:21	1
Dibromofluoromethane	93		75 - 120					04/25/17 01:21	1
Toluene-d8 (Surr)	106		75 - 120					04/25/17 01:21	

General Chemistry Analyte Result Qualifier RL MDL Unit Prepared **Analyzed** Dil Fac 0.2 0.2 SU 8.2 HF 04/21/17 16:48 рΗ

Client Sample ID: North Pond Lab Sample ID: 500-126923-2 Date Collected: 04/20/17 13:30 Matrix: Ground Water

Date Received: 04/21/17 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.3	J	5.0	1.1	ug/L		04/25/17 08:16	04/25/17 14:07	1
Iron	130		100	47	ug/L		04/25/17 08:16	04/25/17 14:07	1
Lead	1.0		0.50	0.19	ug/L		04/25/17 08:16	04/25/17 14:07	1
Manganese	14		2.5	0.79	ug/L		04/25/17 08:16	04/25/17 14:07	1
Nickel	13		2.0	0.63	ug/L		04/25/17 08:16	04/25/17 14:07	1
Selenium	<0.98		2.5	0.98	ug/L		04/25/17 08:16	04/25/17 14:07	1

Analyte RL MDL Unit Result Qualifier D Prepared Analyzed Dil Fac Nitrogen, Nitrate Nitrite <0.041 0.10 0.041 mg/L 04/25/17 22:01 рΗ 7.7 HF 0.2 0.2 SU 04/21/17 16:54

Lab Sample ID: 500-126923-3 Client Sample ID: South Pond Date Collected: 04/20/17 13:35 Matrix: Ground Water

Date Received: 04/21/17 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<1.1		5.0	1.1	ug/L		04/25/17 08:16	04/25/17 14:11	1
Iron	70	J	100	47	ug/L		04/25/17 08:16	04/25/17 14:11	1
Lead	0.23	J	0.50	0.19	ug/L		04/25/17 08:16	04/25/17 14:11	1
Manganese	11		2.5	0.79	ug/L		04/25/17 08:16	04/25/17 14:11	1
Nickel	6.8		2.0	0.63	ug/L		04/25/17 08:16	04/25/17 14:11	1
Selenium	<0.98		2.5	0.98	ug/L		04/25/17 08:16	04/25/17 14:11	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.041		0.10	0.041	mg/L			04/25/17 22:03	1
На	6.9	HF	0.2	0.2	SU			04/21/17 17:00	1

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Client Sample Results

Client: Central Wire (Techalloy) TestAmerica Job ID: 500-126923-1

Project/Site: Ponds and Process Tanks

Client Sample ID: Trip Blank Lab Sample ID: 500-126923-4

Matrix: Water

Date Collected: 04/20/17 00:00 Date Received: 04/21/17 10:00

Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/25/17 00:27	1
Tetrachloroethene	< 0.37		1.0	0.37	ug/L			04/25/17 00:27	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/25/17 00:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 126					04/25/17 00:27	1
4-Bromofluorobenzene (Surr)	116		72 - 124					04/25/17 00:27	1
Dibromofluoromethane	91		75 - 120					04/25/17 00:27	1
Toluene-d8 (Surr)	105		75 - 120					04/25/17 00:27	1









Lab Chronicle

Client: Central Wire (Techalloy)

Project/Site: Ponds and Process Tanks

TestAmerica Job ID: 500-126923-1

Client Sample ID: P&T Effluent/pH

Date Collected: 04/20/17 13:45 Date Received: 04/21/17 10:00

Lab Sample ID: 500-126923-1 Matrix: Ground Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	381913	04/25/17 01:21	EMA	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	381578		SMO	TAL CHI
					(Start) (04/21/17 16:48		
					(End) (04/21/17 16:51		

Client Sample ID: North Pond Lab Sample ID: 500-126923-2

Date Collected: 04/20/17 13:30 Date Received: 04/21/17 10:00

Matrix: Ground Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			382065	04/25/17 08:16	JEF	TAL CHI
Total Recoverable	Analysis	6020A		1	382298	04/25/17 14:07	PFK	TAL CHI
Total/NA	Analysis	353.2		1	382608	04/25/17 22:01	HMW	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	, ,	04/21/17 16:54 04/21/17 16:57	SMO	TAL CHI

Client Sample ID: South Pond Lab Sample ID: 500-126923-3

Matrix: Ground Water

Date Collected: 04/20/17 13:35 Date Received: 04/21/17 10:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			382065	04/25/17 08:16	JEF	TAL CHI
Total Recoverable	Analysis	6020A		1	382298	04/25/17 14:11	PFK	TAL CHI
Total/NA	Analysis	353.2		1	382608	04/25/17 22:03	HMW	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	381578		SMO	TAL CHI
					(Start) (04/21/17 17:00		
					(End) (04/21/17 17:03		

Client Sample ID: Trip Blank Lab Sample ID: 500-126923-4

Date Collected: 04/20/17 00:00 Date Received: 04/21/17 10:00

Batch Dilution Batch Batch Prepared Prep Type Type Method Run **Factor** Number or Analyzed Analyst Lab Total/NA Analysis 8260B 381913 04/25/17 00:27 EMA TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Matrix: Water

Accreditation/Certification Summary

Client: Central Wire (Techalloy)

Project/Site: Ponds and Process Tanks

TestAmerica Job ID: 500-126923-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

Method Summary

Client: Central Wire (Techalloy)
Project/Site: Ponds and Process Tanks

TestAmerica Job ID: 500-126923-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL CHI
SM 4500 H+ B	рН	SM	TAL CHI

Protocol References:

MCAVW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: Central Wire (Techalloy)
Project/Site: Ponds and Process Tanks

TestAmerica Job ID: 500-126923-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-126923-1	P&T Effluent/pH	Ground Water	04/20/17 13:45	04/21/17 10:00
500-126923-2	North Pond	Ground Water	04/20/17 13:30	04/21/17 10:00
500-126923-3	South Pond	Ground Water	04/20/17 13:35	04/21/17 10:00
500-126923-4	Trip Blank	Water	04/20/17 00:00	04/21/17 10:00

(9)

Chicago 2417 Bond Street

Chain of Custody Record, 1st & 2nd Month of Quarter

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THE LEADER IN ENVIRONMENTAL TESTING

University Park, IL 60466

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School Control Contr	Client Contact	Project Manager: Robert Johnson				Site Contact: Robert Johnson Date							e: 4/20/17						COC No:	06	7 Cole	,8		
Colon, IL 901-90 Colon Colonder (C.) for Work Days (W)	Central Wire Union Plant	Tel/Fax: 815.923.4919; 815.923.2126				Lab Contact:						Carrier: UPS								of1_	COCs	i Housestanders		
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South Pond South Pond Safe Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Preservation Used: = Ice, 2= HCI; 3= H2SO4; 4=INO3; 5=NaOH; 6= Other Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard Flammable Skin Irritant Poison B Unknown North Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selentum (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni	South Pond		1335	G	GW	1	N	X																
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Special Instructions/QC Requirements & Comments: North Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selenium (Se) South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selenium (Se) Rec Center Metals: EPA Method 6020A & pH - no preservative Relinquished by: Relinquished by: Company: Company: Company: Company: Company: Company: Company: Company: Date/Time: Received by: Company: Company: Company: Company: Company: Date/Time: Received by: Company: Company: Date/Time: Received by: Company: Company: Date/Time: Received by: Company: Date/Time: Received by: Company: Date/Time: Company: Date/Time: Received by: Company: Date/Time: Company: Date/Time: Date/Time: Received by: Company: Date/Time: Date/Time: Received by: Company: Date/Time: Date/Time:	Possible Hazard Identification	<u></u>				******************	s	ampi	e Di	spos	al (A	fee ma						s are	reta	ainec	l longer th	ian 1 mo	onth)	9//
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Login Sample Receipt Checklist

Client: Central Wire (Techalloy)

Job Number: 500-126923-1

Login Number: 126923 List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	